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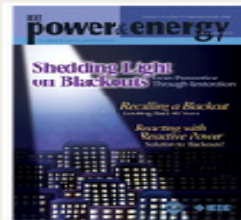
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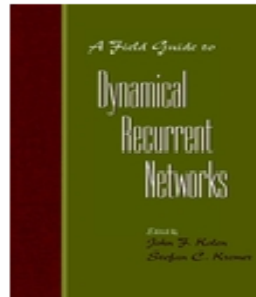
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Abstract

Low power consumption has become one of the most important features of modern electronic devices, due to several factors, ranging from the increased market share of mobile and portable systems for telecom and computing to the increased cost of implementing, packaging and manufacturing circuits working at high speed and temperature. In the beginning, the power problem has been faced manually, thanks to the development of ad-hoc design techniques, mainly applied at the low levels of abstraction (i.e., from physical design up to the gate-level). The increased complexity of modern electronic systems, facilitated by the advent of aggressively scaled technologies, and the augmented pressure of time-to-market constraints, called for automated design support. As a consequence, in the last few years, novel CAD algorithms, and methods that enable tight power consumption control

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[Lightwave Technology, Journal of](#)
Vol. 14, Issue 6, June 1996 Page(s) 1400 - 1409
Digital Object Identifier 10.1109/50.514000
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Initialization of Markov random field clustering of large remote sensing images

Tran, T.N. Wehrens, R. Hoekman, D.H. Buydens, L.M.C.

Inst. for Molecules & Mater., Radboud Univ. Nijmegen, Netherlands

This paper appears in: [Geoscience and Remote Sensing, IEEE Transactions on](#)

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Abstract

Markov random field (MRF) clustering, utilizing both spectral and spatial interpixel dependency information, often improves classification accuracy for **remote sensing** images, such as multichannel polarimetric synthetic aperture radar (SAR) images. However, it is heavily sensitive to initial conditions such as the choice of the number of clusters and their parameters. In this paper, an initialization scheme for MRF clustering approaches is suggested for **remote sensing** images. The proposed method derives suitable initial cluster parameters from a set of homogeneous regions, and estimates the number of clusters using the pseudolikelihood information criterion (PLIC). The method works best for an image consisting of many large homogeneous regions, such as agricultural crops areas. It is illustrated using a well-known polarimetric SAR image of Flevoland in the Netherlands. The experiment shows a superior performance compared to several other methods, such as fuzzy C-means and iterated conditional modes (ICM) clustering.

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On page(s): 1327-1336, Volume: 15, Issue: 7, Sep 1997
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Vehicular Technology, IEEE Transactions on
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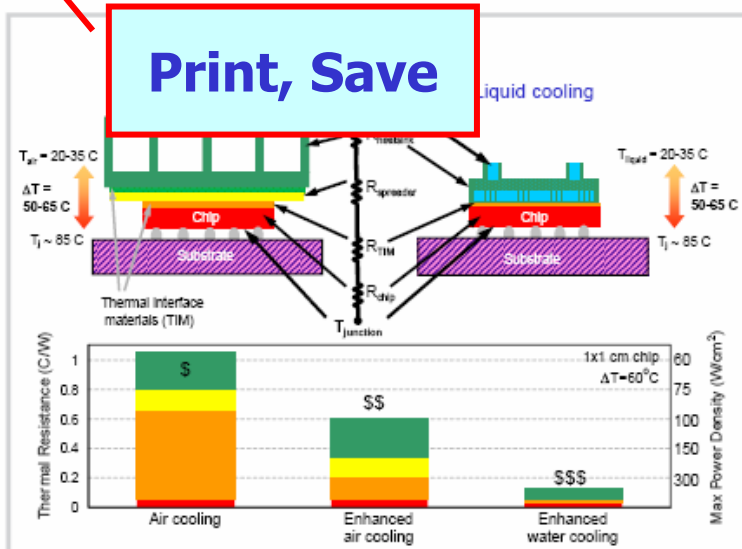


Figure 1.1.1: The bar segments (bottom to top) correspond to the chip, TIM layer, heat spreader, and heat sink or microchannel cooler.

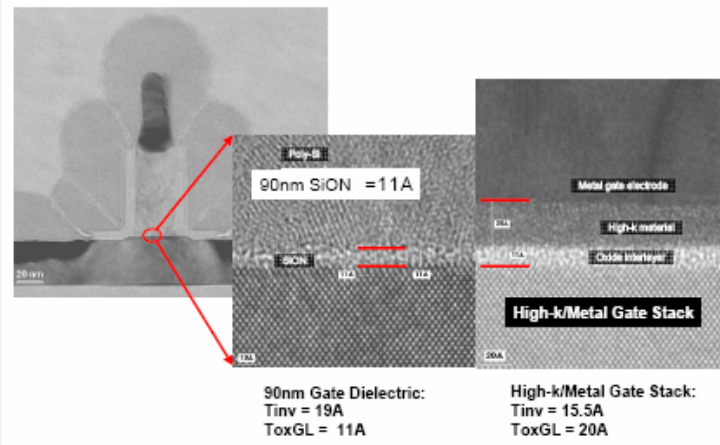


Figure 1.1.2: Gate stack cross-sections.



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Personal communications access networks using subcarrier multiplexed

Book Jung
Department of Computer Eng., State Univ. of New York, Buffalo, NY;

Journal: **Lightwave Technology, Journal of**
1996
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ISSN: 0733-8724

References Cited: 37

CODEN: JLTEDG

INSPEC Accession Number: 5319063

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Abstract

One of the major challenges for future personal communication systems (PCS) and personal communication networks (PCN) is the capacity needed to meet the growing demand. In this paper, fiber optics and wavelength division multiplexing (WDM) technology is proposed, and shown to be a cost-effective solution to this problem. In particular, it is shown that the mature fiber-optics and WDM technology could be used in conjunction with subcarrier multiplexing in microcells in order to transmit messages from subscribers to central base station (uplink) and in the opposite direction too. The access backbone network architecture of such a PCN is also investigated and key problems associated with it are highlighted

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The Johns Hopkins University Applied Physics Lab

This paper appears in: [Instrumentation & Measurement Magazine, IEEE](#)

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Volume: 7 , [Issue: 3](#)

On page(s): 38 - 45

ISSN: 1094-6969

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Digital Object Identifier: 10.1109/MIM.2004.1337912

Posted online: 2004-10-04 11:29:49.0

Abstract

The supersonic combustor of a hypersonic engine is a harsh environment in which to apply close-coupled sensors. While **fiber optic** sensors have some inherent advantages over conventional electronic sensors, the first challenge was to design a **fiber optic** connector that could support the application of **fiber optic** sensors. We have designed a high-temperature **fiber optic** connector that will allow the placement of a **fiber optic** sensor into the wall of a high-temperature pressure vessel such as the DCR combustor. This connector has proven versatile enough to support monitoring of the ignition status of the combustor via looking at the spectral content of the flame. Additional information about the combustion process can be obtained by using multiple fibers and multiple detectors with different wavelength sensitivities or by connecting the fiber to a spectrometer. We have also shown that two different **fiber optic** transducer manufacturers, using two different **fiber optic** sensing technologies, can produce **fiber optic** pressure transducers that can be installed inside of the high-temperature **fiber optic** connector. These pressure transducers were closely coupled to the combustor and have successfully monitored the combustor pressure during short ground tests. The transducers used for these tests were modifications of standard designs by Fiso Technologies and Optrand Inc. The small size of the **fiber optic** pressure transducers and their high-temperature capability allowed them to be applied in locations where the application of conventional strain gauge transducers is not possible. Such close coupling of the transducers allowed observation of phenomena not seen with prior existing instrumentation. Both of the transducers furnished useful data; however, optimization of the transducers was not possible under the scope of this program. It should be noted that the hypersonic DCR tests are short ground tests using heat sink model

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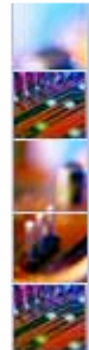
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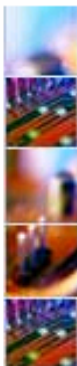
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